



SEQUENCE LISTING

<110> Ish-Horowicz, David
Henrique, Domingos Manuel Pinto
Lewis, Julian Hart
Artavanis Tsakonas, Spyridon
Gray, Grace

<120> ANTIBODIES TO VERTEBRATE DELTA PROTEINS
AND FRAGMENTS

<130> 7326-122-999

<140> 09/783,931

<141> 2001-02-15

<150> 08/981,392

<151> 1997-12-22

<150> PCT/US96/11178

<151> 1996-06-28

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<223> Chick Delta (C-Delta-1) gene

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<220>
 <223> mouse Delta-1 gene

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<211> 721
<212> PRT
<213> Xenopus

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20          25          30
Val Asn Lys Lys Gly Leu Leu Gly Asn Met Asn Cys Cys Arg Pro Gly
35          40          45
Ser Leu Ala Ser Leu Gln Arg Cys Glu Cys Lys Thr Phe Phe Arg Ile
50          55          60
Cys Leu Lys His Tyr Gln Ser Asn Val Ser Pro Glu Pro Pro Cys Thr
65          70          75          80
Tyr Gly Gly Ala Val Thr Pro Val Leu Gly Thr Asn Ser Phe Val Val
85          90          95
Pro Glu Ser Ser Asn Ala Asp Pro Thr Phe Ser Asn Pro Ile Arg Phe
100         105         110
Pro Phe Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala
115         120         125
Ile His Ala Asp Ser Ala Asp Asp Leu Asn Thr Glu Asn Pro Glu Arg
130         135         140
Leu Ile Ser Arg Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Gln
145         150         155         160
Trp Ser Gln Asp Leu His Ser Ser Asp Arg Thr Glu Leu Lys Tyr Ser
165         170         175
Tyr Arg Phe Val Cys Asp Glu Tyr Tyr Tyr Gly Glu Gly Cys Ser Asp
180         185         190
Tyr Cys Arg Pro Arg Asp Asp Ala Phe Gly His Phe Ser Cys Gly Glu
195         200         205
Lys Gly Glu Lys Leu Cys Asn Pro Gly Trp Lys Gly Leu Tyr Cys Thr
210         215         220
Glu Pro Ile Cys Leu Pro Gly Cys Asp Glu His His Gly Tyr Cys Asp

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225					230					235					240
Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys
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			260					265					270		
Pro	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn
		275					280					285			
Gln	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Glu	Asn	Gly	Ala
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Thr	Cys	Thr	Asn	Thr	Gly	Gln	Gly	Ser	Tyr	Thr	Cys	Ser	Cys	Arg	Pro
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Gly	Tyr	Thr	Gly	Ser	Asn	Cys	Glu	Ile	Glu	Val	Asn	Glu	Cys	Asp	Ala
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Asn	Pro	Cys	Lys	Asn	Gly	Gly	Ser	Cys	Ser	Asp	Leu	Glu	Asn	Ser	Tyr
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Thr	Cys	Ser	Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys	Asn	Cys	Glu	Leu	Ser
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Ala	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys	Ala
	370					375					380				
Asp	Asn	Pro	Asp	Gly	Gly	Tyr	Ile	Cys	Phe	Cys	Pro	Val	Gly	Tyr	Ser
385					390					395					400
Gly	Phe	Asn	Cys	Glu	Lys	Lys	Ile	Asp	Tyr	Cys	Ser	Ser	Asn	Pro	Cys
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Ala	Asn	Gly	Ala	Arg	Cys	Glu	Asp	Leu	Gly	Asn	Ser	Tyr	Ile	Cys	Gln
			420					425					430		
Cys	Gln	Glu	Gly	Phe	Ser	Gly	Arg	Asn	Cys	Asp	Asp	Asn	Leu	Asp	Asp
		435					440					445			
Cys	Thr	Ser	Phe	Pro	Cys	Gln	Asn	Gly	Gly	Thr	Cys	Gln	Asp	Gly	Ile
	450					455					460				
Asn	Asp	Tyr	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Ile	Gly	Lys	Asn	Cys
465					470					475					480
Ser	Met	Pro	Ile	Thr	Lys	Cys	Glu	His	Asn	Pro	Cys	His	Asn	Gly	Ala
				485					490					495	
Thr	Cys	His	Glu	Arg	Asn	Asn	Arg	Tyr	Val	Cys	Gln	Cys	Ala	Arg	Gly
			500					505					510		
Tyr	Gly	Gly	Asn	Asn	Cys	Gln	Phe	Leu	Leu	Pro	Glu	Glu	Lys	Pro	Val
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Val	Val	Asp	Leu	Thr	Glu	Lys	Tyr	Thr	Glu	Gly	Gln	Ser	Gly	Gln	Phe
	530					535					540				
Pro	Trp	Ile	Ala	Val	Cys	Ala	Gly	Ile	Val	Leu	Val	Leu	Met	Leu	Leu
545					550					555					560
Leu	Gly	Cys	Ala	Ala	Val	Val	Val	Cys	Val	Arg	Val	Arg	Val	Gln	Lys
				565					570					575	
Arg	Arg	His	Gln	Pro	Glu	Ala	Cys	Arg	Gly	Glu	Ser	Lys	Thr	Met	Asn
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Asn	Leu	Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ile	Ser	Val	Ser	Phe	Ile
		595					600					605			
Gly	Thr	Thr	Gln	Ile	Lys	Asn	Thr	Asn	Lys	Lys	Ile	Asp	Phe	Leu	Ser
	610					615					620				
Glu	Ser	Asn	Asn	Glu	Lys	Asn	Gly	Tyr	Lys	Pro	Arg	Tyr	Pro	Ser	Val
625					630					635					640
Asp	Tyr	Asn	Leu	Val	His	Glu	Leu	Lys	Asn	Glu	Asp	Ser	Pro	Lys	Glu
				645					650					655	
Glu	Arg	Ser	Lys	Cys	Glu	Ala	Lys	Cys	Ser	Ser	Asn	Asp	Ser	Asp	Ser
			660					665					670		
Glu	Asp	Val	Asn	Ser	Val	His	Ser	Lys	Arg	Asp	Ser	Ser	Glu	Arg	Arg
		675					680					685			
Arg	Pro	Asp	Ser	Ala	Tyr	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln	Ser
	690					695					700				
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Val

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 <211> 832
 <212> PRT
 <213> Drosophila

<400> 6
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 35 40 45
 Glu Ser Asp Gly Ala Thr Gly Lys Cys Leu Gly Ser Cys Lys Thr Arg
 50 55 60
 Phe Arg Leu Cys Leu Lys His Tyr Gln Ala Thr Ile Asp Thr Thr Ser
 65 70 75 80
 Gln Cys Thr Tyr Gly Asp Val Ile Thr Pro Ile Leu Gly Glu Asn Ser
 85 90 95
 Val Asn Leu Thr Asp Ala Gln Arg Phe Gln Asn Lys Gly Phe Thr Asn
 100 105 110
 Pro Ile Gln Phe Pro Phe Ser Phe Ser Trp Pro Gly Thr Phe Ser Leu
 115 120 125
 Ile Val Glu Ala Trp His Asp Thr Asn Asn Ser Gly Asn Ala Arg Thr
 130 135 140
 Asn Lys Leu Leu Ile Gln Arg Leu Leu Val Gln Gln Val Leu Glu Val
 145 150 155 160
 Ser Ser Glu Trp Lys Thr Asn Lys Ser Glu Ser Gln Tyr Thr Ser Leu
 165 170 175
 Glu Tyr Asp Phe Arg Val Thr Cys Asp Leu Asn Tyr Tyr Gly Ser Gly
 180 185 190
 Cys Ala Lys Phe Cys Arg Pro Arg Asp Asp Ser Phe Gly His Ser Thr
 195 200 205
 Cys Ser Glu Thr Gly Glu Ile Ile Cys Leu Thr Gly Trp Gln Gly Asp
 210 215 220
 Tyr Cys His Ile Pro Lys Cys Ala Lys Gly Cys Glu His Gly His Cys
 225 230 235 240
 Asp Lys Pro Asn Gln Cys Val Cys Gln Leu Gly Trp Lys Gly Ala Leu
 245 250 255
 Cys Asn Glu Cys Val Leu Glu Pro Asn Cys Ile His Gly Thr Cys Asn
 260 265 270
 Lys Pro Trp Thr Cys Ile Cys Asn Glu Gly Trp Gly Gly Leu Tyr Cys
 275 280 285
 Asn Gln Asp Leu Asn Tyr Cys Thr Asn His Arg Pro Cys Lys Asn Gly
 290 295 300
 Gly Thr Cys Phe Asn Thr Gly Glu Gly Leu Tyr Thr Cys Lys Cys Ala
 305 310 315 320
 Pro Gly Tyr Ser Gly Asp Asp Cys Glu Asn Glu Ile Tyr Ser Cys Asp
 325 330 335
 Ala Asp Val Asn Pro Cys Gln Asn Gly Gly Thr Cys Ile Asp Glu Pro
 340 345 350
 His Thr Lys Thr Gly Tyr Lys Cys His Cys Arg Asn Gly Trp Ser Gly
 355 360 365
 Lys Met Cys Glu Glu Lys Val Leu Thr Cys Ser Asp Lys Pro Cys His
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 Gln Gly Ile Cys Arg Asn Val Arg Pro Gly Leu Gly Ser Lys Gly Gln
 385 390 395 400
 Gly Tyr Gln Cys Glu Cys Pro Ile Gly Tyr Ser Gly Pro Asn Cys Asp

405							410					415				
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Cys	Gln	Pro	Ser	Gly	Lys	Cys	Ile	Cys	Pro	Ser	Gly	Phe	Ser	Gly	Thr	
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Arg	Cys	Glu	Thr	Asn	Ile	Asp	Asp	Cys	Leu	Gly	His	Gln	Cys	Glu	Asn	
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Gly	Gly	Thr	Cys	Ile	Asp	Met	Val	Asn	Gln	Tyr	Arg	Cys	Gln	Cys	Val	
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Pro	Gly	Phe	His	Gly	Thr	His	Cys	Ser	Ser	Lys	Val	Asp	Leu	Cys	Leu	
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Ile	Arg	Pro	Cys	Ala	Asn	Gly	Gly	Thr	Cys	Leu	Asn	Leu	Asn	Asn	Asp	
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Gly	Lys	Gln	Cys	Asp	Glu	Glu	Ser	Tyr	Asp	Ser	Val	Thr	Phe	Asp	Ala	
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His	Gln	Tyr	Gly	Ala	Thr	Thr	Gln	Ala	Arg	Ala	Asp	Gly	Leu	Ala	Asn	
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Ala	Gln	Val	Val	Leu	Ile	Ala	Val	Phe	Ser	Val	Ala	Met	Pro	Leu	Val	
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Ala	Val	Ile	Ala	Ala	Cys	Val	Val	Phe	Cys	Met	Lys	Arg	Lys	Arg	Lys	
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Arg	Ala	Gln	Glu	Lys	Asp	Asn	Ala	Glu	Ala	Arg	Lys	Gln	Asn	Glu	Gln	
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Asn	Ala	Val	Ala	Thr	Met	His	His	Asn	Gly	Ser	Ala	Val	Gly	Val	Ala	
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Leu	Ala	Ser	Ala	Ser	Met	Gly	Gly	Lys	Thr	Gly	Ser	Asn	Ser	Gly	Leu	
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Thr	Phe	Asp	Gly	Gly	Asn	Pro	Asn	Ile	Ile	Lys	Asn	Thr	Trp	Asp	Lys	
		675					680					685				
Ser	Val	Asn	Asn	Ile	Cys	Ala	Ser	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	
	690					695					700					
Ala	Ala	Ala	Asp	Glu	Cys	Leu	Met	Tyr	Gly	Gly	Tyr	Val	Ala	Ser	Val	
705					710					715					720	
Ala	Asp	Asn	Asn	Asn	Ala	Asn	Ser	Asp	Phe	Cys	Val	Ala	Pro	Leu	Gln	
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Arg	Ala	Lys	Ser	Gln	Lys	Gln	Leu	Asn	Thr	Asp	Pro	Thr	Leu	Met	His	
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Arg	Gly	Ser	Pro	Ala	Gly	Thr	Ser	Ala	Lys	Gly	Ala	Ser	Gly	Gly	Gly	
		755					760					765				
Pro	Gly	Ala	Ala	Glu	Gly	Lys	Arg	Ile	Ser	Val	Leu	Gly	Glu	Gly	Ser	
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Tyr	Cys	Ser	Gln	Arg	Trp	Pro	Ser	Leu	Ala	Ala	Ala	Gly	Val	Ala	Gly	
785					790					795					800	
Asp	Leu	Phe	Ile	Gln	Leu	Met	Ala	Ala	Ala	Ser	Val	Ala	Gly	Thr	Asp	
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 <212> PRT
 <213> Drosophila

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 <211> 45
 <212> PRT
 <213> Gallus gallus

<400> 8
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 Asn Lys Thr Cys Leu Glu Gly Trp Thr Gly Pro Glu Cys
 35 40 45

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 <211> 43
 <212> PRT
 <213> Drosophila

<400> 9
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 Arg Cys Ser Ala Gly Trp Ser Gly Glu Asp Cys
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<210> 10
 <211> 45
 <212> PRT
 <213> Drosophila

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 Arg Leu Arg Cys Asp Ile Gly Trp Met Gly Pro His Cys
 35 40 45

<210> 11
 <211> 2692
 <212> DNA
 <213> mouse

<220>
 <221> CDS
 <222> (31)...(2199)
 <223> Mouse Delta (M-Delta-1) gene

<400> 11

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						1							5			
gcc	ctt	gcc	gtg	gtc	tct	gcc	ctg	ctg	tgc	cag	gtc	tgg	agc	tcc	ggc	102
Ala	Leu	Ala	Val	Val	Ser	Ala	Leu	Leu	Cys	Gln	Val	Trp	Ser	Ser	Gly	
	10					15					20					
gta	ttt	gag	ctg	aag	ctg	cag	gag	ttc	gtc	aac	aag	aag	ggg	ctg	ctg	150
Val	Phe	Glu	Leu	Lys	Leu	Gln	Glu	Phe	Val	Asn	Lys	Lys	Gly	Leu	Leu	
	25				30					35					40	
ggg	aac	cgc	aac	tgc	tgc	cgc	ggg	ggc	tct	ggc	ccg	cct	tgc	gcc	tgc	198
Gly	Asn	Arg	Asn	Cys	Cys	Arg	Gly	Gly	Ser	Gly	Pro	Pro	Cys	Ala	Cys	
				45					50					55		
agg	acc	ttc	ttt	cgc	gta	tgc	ctc	aag	cac	tac	cag	gcc	agc	gtg	tca	246
Arg	Thr	Phe	Phe	Arg	Val	Cys	Leu	Lys	His	Tyr	Gln	Ala	Ser	Val	Ser	
			60					65					70			
ccg	gag	cca	ccc	tgc	acc	tac	ggc	agt	gcc	gtc	acg	cca	gtg	ctg	ggt	294
Pro	Glu	Pro	Pro	Cys	Thr	Tyr	Gly	Ser	Ala	Val	Thr	Pro	Val	Leu	Gly	
		75					80					85				
gtc	gac	tcc	ttc	agc	ctg	cct	gat	ggc	gca	ggc	atc	gac	ccc	gcc	ttc	342
Val	Asp	Ser	Phe	Ser	Leu	Pro	Asp	Gly	Ala	Gly	Ile	Asp	Pro	Ala	Phe	
	90					95					100					
agc	aac	ccc	atc	cga	ttc	ccc	ttc	ggc	ttc	acc	tgg	cca	ggt	acc	ttc	390
Ser	Asn	Pro	Ile	Arg	Phe	Pro	Phe	Gly	Phe	Thr	Trp	Pro	Gly	Thr	Phe	
105					110					115					120	
tct	ctg	atc	att	gaa	gcc	ctc	cat	aca	gac	tct	ccc	gat	gac	ctc	gca	438
Ser	Leu	Ile	Ile	Glu	Ala	Leu	His	Thr	Asp	Ser	Pro	Asp	Asp	Leu	Ala	
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aca	gaa	aac	cca	gaa	aga	ctc	atc	agc	cgc	ctg	acc	aca	cag	agg	cac	486
Thr	Glu	Asn	Pro	Glu	Arg	Leu	Ile	Ser	Arg	Leu	Thr	Thr	Gln	Arg	His	
			140					145					150			
ctc	act	gtg	gga	gaa	gaa	tgg	tct	cag	gac	ctt	cac	agt	agc	ggc	cgc	534
Leu	Thr	Val	Gly	Glu	Glu	Trp	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	
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aca	gac	ctc	cgg	tac	tct	tac	cgg	ttt	gtg	tgt	gac	gag	cac	tac	tac	582
Thr	Asp	Leu	Arg	Tyr	Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	
	170					175					180					
gga	gaa	ggt	tgc	tct	gtg	ttc	tgc	cga	cct	cgg	gat	gac	gcc	ttt	ggc	630
Gly	Glu	Gly	Cys	Ser	Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly	
185					190					195					200	
cac	ttc	acc	tgc	ggg	gac	aga	ggg	gag	aag	atg	tgc	gac	cct	ggc	tgg	678
His	Phe	Thr	Cys	Gly	Asp	Arg	Gly	Glu	Lys	Met	Cys	Asp	Pro	Gly	Trp	
				205					210					215		
aaa	ggc	cag	tac	tgc	act	gac	cca	atc	tgt	ctg	cca	ggg	tgt	gat	gac	726
Lys	Gly	Gln	Tyr	Cys	Thr	Asp	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Asp	
			220					225					230			

caa cat gga tac tgt gac aaa cca ggg gag tgc aag tgc aga gtt ggc	774
Gln His Gly Tyr Cys Asp Lys Pro Gly Glu Cys Lys Cys Arg Val Gly	
235 240 245	
tgg cag ggc cgc tac tgc gat gag tgc atc cga tac cca ggt tgt gtc	822
Trp Gln Gly Arg Tyr Cys Asp Glu Cys Ile Arg Tyr Pro Gly Cys Val	
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His Gly Thr Cys Gln Gln Pro Trp Gln Cys Asn Cys Gln Glu Gly Trp	
265 270 275 280	
ggg ggc ctt ttc tgc aac caa gac ctg aac tac tgt act cac cat aag	918
Gly Gly Leu Phe Cys Asn Gln Asp Leu Asn Tyr Cys Thr His His Lys	
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Pro Cys Arg Asn Gly Ala Thr Cys Thr Asn Thr Gly Gln Gly Ser Tyr	
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Thr Cys Ser Cys Arg Pro Gly Tyr Thr Gly Ala Asn Cys Glu Leu Glu	
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Val Asp Glu Cys Ala Pro Ser Pro Cys Lys Asn Gly Ala Ser Cys Thr	
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Asp Leu Glu Asp Ser Phe Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly	
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Lys Val Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe	
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Asn Gly Gly Arg Cys Ser Asp Asn Pro Asp Gly Gly Tyr Thr Cys His	
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Cys Pro Leu Gly Phe Ser Gly Phe Asn Cys Glu Lys Lys Met Asp Leu	
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Cys Gly Ser Ser Pro Cys Ser Asn Gly Ala Lys Cys Val Asp Leu Gly	
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Asn Ser Tyr Leu Cys Arg Cys Gln Ala Gly Phe Ser Gly Arg Tyr Cys	
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Glu Asp Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly	
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Thr Cys Arg Asp Ser Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly	
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Tyr Thr Gly Lys Asn Cys Ser Ala Pro Val Ser Arg Cys Glu His Ala	
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Pro Cys His Asn Gly Ala Thr Cys His Gln Arg Gly Gln Arg Tyr Met	
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Cys Glu Cys Ala Gln Gly Tyr Gly Gly Pro Asn Cys Gln Phe Leu Leu	
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Met Glu Ser Gln Gly Gly Pro Phe Pro Trp Val Ala Val Cys Ala Gly	
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Val Val Leu Val Leu Leu Leu Leu Leu Gly Cys Ala Ala Val Val Val	
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Cys Val Arg Leu Lys Leu Gln Lys His Gln Pro Pro Pro Glu Pro Cys	
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Gly Gly Glu Thr Glu Thr Met Asn Asn Leu Ala Asn Cys Gln Arg Glu	
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Lys Asp Val Ser Val Ser Ile Ile Gly Ala Thr Gln Ile Lys Asn Thr	
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Asn Lys Lys Ala Asp Phe His Gly Asp His Gly Ala Glu Lys Ser Ser	
620 625 630	
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Phe Lys Val Arg Tyr Pro Thr Val Asp Tyr Asn Leu Val Arg Asp Leu	
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Lys Gly Asp Glu Ala Thr Val Arg Asp Thr His Ser Lys Arg Asp Thr	
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aag tgc cag tca cag agt ctg cag gag aag aga aga tcg ccc caa cac	2070
Lys Cys Gln Ser Gln Ser Leu Gln Glu Lys Arg Arg Ser Pro Gln His	
665 670 675 680	
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Leu Gly Val Gly Arg Phe Leu Thr Glu Asn Arg Pro Glu Ser Val Tyr	
685 690 695	
tct act tca aag gac acc aag tac cag tcg gtg tat gtt ctg tct gca	2166
Ser Thr Ser Lys Asp Thr Lys Tyr Gln Ser Val Tyr Val Leu Ser Ala	
700 705 710	
gaa aag gat gag tgt gtt ata gcg act gag gtg taagatggaa gcgatgtggc	2219

Glu Lys Asp Glu Cys Val Ile Ala Thr Glu Val
715 720

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<210> 12
<211> 722
<212> PRT
<213> mouse

<400> 12

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Val	Asn	Lys	Lys	Gly	Leu	Leu	Gly	Asn	Arg	Asn	Cys	Cys	Arg	Gly	Gly
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Ser	Gly	Pro	Pro	Cys	Ala	Cys	Arg	Thr	Phe	Phe	Arg	Val	Cys	Leu	Lys
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His	Tyr	Gln	Ala	Ser	Val	Ser	Pro	Glu	Pro	Pro	Cys	Thr	Tyr	Gly	Ser
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Ala	Val	Thr	Pro	Val	Leu	Gly	Val	Asp	Ser	Phe	Ser	Leu	Pro	Asp	Gly
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Ala	Gly	Ile	Asp	Pro	Ala	Phe	Ser	Asn	Pro	Ile	Arg	Phe	Pro	Phe	Gly
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Phe	Thr	Trp	Pro	Gly	Thr	Phe	Ser	Leu	Ile	Ile	Glu	Ala	Leu	His	Thr
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Asp	Ser	Pro	Asp	Asp	Leu	Ala	Thr	Glu	Asn	Pro	Glu	Arg	Leu	Ile	Ser
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Arg	Leu	Thr	Thr	Gln	Arg	His	Leu	Thr	Val	Gly	Glu	Glu	Trp	Ser	Gln
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Asp	Leu	His	Ser	Ser	Gly	Arg	Thr	Asp	Leu	Arg	Tyr	Ser	Tyr	Arg	Phe
				165				170						175	
Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly	Glu	Gly	Cys	Ser	Val	Phe	Cys	Arg
		180						185					190		
Pro	Arg	Asp	Asp	Ala	Phe	Gly	His	Phe	Thr	Cys	Gly	Asp	Arg	Gly	Glu
		195				200						205			
Lys	Met	Cys	Asp	Pro	Gly	Trp	Lys	Gly	Gln	Tyr	Cys	Thr	Asp	Pro	Ile
	210					215					220				
Cys	Leu	Pro	Gly	Cys	Asp	Asp	Gln	His	Gly	Tyr	Cys	Asp	Lys	Pro	Gly
225					230					235					240
Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	Glu	Cys
				245					250					255	
Ile	Arg	Tyr	Pro	Gly	Cys	Val	His	Gly	Thr	Cys	Gln	Gln	Pro	Trp	Gln
			260					265					270		
Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	Asp	Leu
		275					280					285			
Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Arg	Asn	Gly	Ala	Thr	Cys	Thr
	290					295					300				
Asn	Thr	Gly	Gln	Gly	Ser	Tyr	Thr	Cys	Ser	Cys	Arg	Pro	Gly	Tyr	Thr
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Gly	Ala	Asn	Cys	Glu	Leu	Glu	Val	Asp	Glu	Cys	Ala	Pro	Ser	Pro	Cys
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Lys	Asn	Gly	Ala	Ser	Cys	Thr	Asp	Leu	Glu	Asp	Ser	Phe	Ser	Cys	Thr

			340					345					350				
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		355					360					365					
Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys	Ser	Asp	Asn	Pro		
	370					375					380						
Asp	Gly	Gly	Tyr	Thr	Cys	His	Cys	Pro	Leu	Gly	Phe	Ser	Gly	Phe	Asn		
385					390					395					400		
Cys	Glu	Lys	Lys	Met	Asp	Leu	Cys	Gly	Ser	Ser	Pro	Cys	Ser	Asn	Gly		
				405					410					415			
Ala	Lys	Cys	Val	Asp	Leu	Gly	Asn	Ser	Tyr	Leu	Cys	Arg	Cys	Gln	Ala		
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465					470					475					480		
Val	Ser	Arg	Cys	Glu	His	Ala	Pro	Cys	His	Asn	Gly	Ala	Thr	Cys	His		
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Gln	Arg	Gly	Gln	Arg	Tyr	Met	Cys	Glu	Cys	Ala	Gln	Gly	Tyr	Gly	Gly		
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	515						520					525					
Val	Asp	Leu	Ser	Glu	Arg	His	Met	Glu	Ser	Gln	Gly	Gly	Pro	Phe	Pro		
	530					535					540						
Trp	Val	Ala	Val	Cys	Ala	Gly	Val	Val	Leu	Val	Leu	Leu	Leu	Leu	Leu		
545					550					555					560		
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				565					570					575			
Gln	Pro	Pro	Pro	Glu	Pro	Cys	Gly	Gly	Glu	Thr	Glu	Thr	Met	Asn	Asn		
			580					585						590			
Leu	Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Val	Ser	Val	Ser	Ile	Ile	Gly		
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Ala	Thr	Gln	Ile	Lys	Asn	Thr	Asn	Lys	Lys	Ala	Asp	Phe	His	Gly	Asp		
	610					615					620						
His	Gly	Ala	Glu	Lys	Ser	Ser	Phe	Lys	Val	Arg	Tyr	Pro	Thr	Val	Asp		
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Tyr	Asn	Leu	Val	Arg	Asp	Leu	Lys	Gly	Asp	Glu	Ala	Thr	Val	Arg	Asp		
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Thr	His	Ser	Lys	Arg	Asp	Thr	Lys	Cys	Gln	Ser	Gln	Ser	Leu	Gln	Glu		
			660					665						670			
Lys	Arg	Arg	Ser	Pro	Gln	His	Leu	Gly	Val	Gly	Arg	Phe	Leu	Thr	Glu		
		675					680					685					
Asn	Arg	Pro	Glu	Ser	Val	Tyr	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln		
	690					695					700						
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Glu	Val																

<210> 13
 <211> 578
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consenses sequence of Chick Delta and Mouse Delta

<400> 13
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			20					25					30				
Asn	Cys	Cys	Arg	Gly	Gly	Gly	Cys	Cys	Thr	Phe	Phe	Arg	Val	Cys	Leu		
		35					40					45					
Lys	His	Tyr	Gln	Ala	Ser	Val	Ser	Pro	Glu	Pro	Pro	Cys	Thr	Tyr	Gly		
	50					55					60						
Ser	Ala	Thr	Pro	Val	Leu	Gly	Ser	Phe	Ser	Pro	Asp	Gly	Ala	Gly	Asp		
65					70					75					80		
Pro	Ala	Phe	Ser	Asn	Pro	Ile	Arg	Phe	Pro	Phe	Gly	Phe	Thr	Trp	Pro		
				85					90					95			
Gly	Thr	Phe	Ser	Leu	Ile	Ile	Glu	Ala	Leu	His	Thr	Asp	Ser	Pro	Asp		
			100					105					110				
Asp	Leu	Thr	Glu	Asn	Pro	Glu	Arg	Leu	Ile	Ser	Arg	Leu	Thr	Gln	Arg		
		115					120					125					
His	Leu	Val	Gly	Glu	Glu	Trp	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg		
	130					135					140						
Thr	Asp	Leu	Tyr	Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly		
145					150					155					160		
Glu	Gly	Cys	Ser	Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Phe	Gly	His	Phe		
				165					170					175			
Thr	Cys	Gly	Arg	Gly	Glu	Lys	Cys	Pro	Gly	Trp	Lys	Gly	Gln	Tyr	Cys		
			180					185					190				
Thr	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Gln	His	Gly	Cys	Asp	Lys	Pro		
		195					200					205					
Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	Glu		
	210					215					220						
Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Val	His	Gly	Thr	Cys	Gln	Gln	Pro	Trp		
225					230					235					240		
Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	Asp		
				245					250					255			
Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Asn	Gly	Ala	Thr	Cys	Thr		
			260					265					270				
Asn	Thr	Gly	Gln	Gly	Ser	Tyr	Thr	Cys	Ser	Cys	Arg	Pro	Gly	Tyr	Thr		
		275					280					285					
Gly	Cys	Glu	Glu	Glu	Cys	Pro	Cys	Lys	Asn	Gly	Ser	Cys	Thr	Asp	Leu		
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Glu	Ser	Ser	Cys	Thr	Cys	Pro	Pro	Gly	Phe	Tyr	Gly	Lys	Cys	Glu	Leu		
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Ser	Ala	Met	Thr	Cys	Ala	Asp	Gly	Pro	Cys	Phe	Asn	Gly	Gly	Arg	Cys		
				325					330					335			
Asp	Asn	Pro	Asp	Gly	Gly	Tyr	Cys	Cys	Pro	Leu	Gly	Ser	Gly	Phe	Asn		
			340					345					350				
Cys	Glu	Lys	Lys	Asp	Cys	Ser	Ser	Pro	Cys	Asn	Gly	Ala	Cys	Val	Asp		
		355					360					365					
Leu	Gly	Asn	Ser	Tyr	Cys	Cys	Gln	Ala	Gly	Phe	Gly	Arg	Cys	Asp	Asn		
	370					375					380						
Val	Asp	Asp	Cys	Ala	Ser	Pro	Cys	Asn	Gly	Gly	Thr	Cys	Asp	Val	Asn		
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				405					410					415			
Ser	Arg	Cys	Glu	His	Pro	Cys	His	Asn	Gly	Ala	Thr	Cys	His	Arg	Arg		
			420					425					430				
Tyr	Cys	Glu	Cys	Ala	Gly	Tyr	Gly	Gly	Asn	Cys	Gln	Phe	Leu	Leu	Pro		
		435						440					445				
Glu	Pro	Pro	Gly	Pro	Val	Asp	Glu	Glu	Gln	Phe	Pro	Trp	Ala	Val	Cys		
	450					455					460						
Ala	Gly	Leu	Val	Leu	Leu	Leu	Leu	Gly	Cys	Ala	Ala	Val	Val	Cys	Val		
465					470					475					480		

Arg	Leu	Lys	Gln	Lys	Pro	Glu	Cys	Glu	Thr	Glu	Thr	Met	Asn	Asn	Leu
				485					490					495	
Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ser	Ser	Ile	Gly	Ala	Thr	Gln	Ile
			500					505					510		
Lys	Asn	Thr	Asn	Lys	Lys	Asp	Phe	His	Asp	Lys	Lys	Val	Arg	Tyr	Pro
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Val	Asp	Tyr	Asn	Leu	Val	Leu	Lys	Val	His	Lys	Lys	Cys	Ser	Glu	Glu
	530					535					540				
Lys	Ala	Leu	Arg	Lys	Arg	Pro	Ser	Val	Tyr	Ser	Thr	Ser	Lys	Asp	Thr
545					550					555					560
Lys	Tyr	Gln	Ser	Val	Tyr	Val	Ser	Glu	Lys	Asp	Glu	Cys	Ile	Ala	Thr
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<210> 14
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 14
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 tccgacaaga atggmtttca aggcccgcta ccccgagcgtg gactataact cgtgcaggac 180
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 cttcccaaatt gttctcatgc attcattgtg gattttctct attttccttt tagtggagaa 420
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<210> 15
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of humna delta

<220>
 <221> VARIANT
 <222> 4
 <223> Xaa = Any Amino Acid

<400> 15
 Tyr Asp Glu Xaa Pro Gly Glu Leu Pro Ala
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<210> 16
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of humna delta

<220>
 <221> VARIANT
 <222> 11, 15, 23, 24, 28

<223> Xaa = Any Amino Acid

<400> 16

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Pro	Thr	Arg	Arg	Arg	Thr	Xaa	Xaa	Arg	Gly	Thr	Xaa	Ala	Ser	Asp	Lys
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Asn	Gly	Phe	Gln	Gly	Pro	Leu	Pro	Gln	Arg	Gly	Leu				
		35					40								

<210> 17

<211> 118

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of humna delta

<220>

<221> VARIANT

<222> 41

<223> Xaa = Any Amino Acid

<400> 17

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Ser	Lys	Arg	Asp	Thr	Lys	Cys	Gln	Ser	Pro	Gly	Ser	Ser	Gly	Arg	Arg
			20					25					30		
Arg	Gly	Pro	Arg	Pro	His	Ser	Gly	Xaa	Ala	Cys	Cys	Gly	Pro	Gly	Ser
		35					40					45			
Gly	Gly	Gly	Thr	Trp	Gly	Val	Ser	Ser	Trp	His	Cys	Ser	Val	Ser	Leu
	50				55						60				
Pro	Lys	Cys	Ser	His	Ala	Phe	Ile	Val	Asp	Phe	Leu	Tyr	Phe	Pro	Phe
65					70				75					80	
Ser	Gly	Glu	Ala	Ser	Glu	Arg	Lys	Arg	Pro	Asp	Ser	Gly	Cys	Ser	Thr
				85					90					95	
Ser	Lys	Asp	Thr	Lys	Tyr	Gln	Ser	Val	Tyr	Val	Ile	Ser	Glu	Glu	Lys
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Asp	Glu	Cys	Val	Ile	Ala										
			115												

<210> 18

<211> 173

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<220>

<221> VARIANT

<222> 34, 35, 39, 44, 96

<223> Xaa = Any Amino Acid

<400> 18

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Ser	Ile	Ile	Gly	Ala	Thr	Ser	Asp	Gln	Glu	His	Gln	Gln	Glu	Gly	Gly

			20					25				30			
Leu	Xaa	Xaa	Gly	Gly	Pro	Xaa	Pro	Thr	Arg	Met	Xaa	Phe	Lys	Ala	Arg
		35					40					45			
Tyr	Pro	Ser	Val	Asp	Tyr	Asn	Ser	Cys	Arg	Thr	Ser	Arg	Val	Thr	Thr
	50					55					60				
Pro	Pro	Ser	Gly	Arg	Arg	Thr	Ala	Ser	Val	Thr	Pro	Ser	Ala	Ser	Pro
65					70				75						80
Gln	Ala	Pro	Gln	Gly	Gly	Glu	Gly	Asp	Pro	Asp	His	Thr	Gln	Gly	Xaa
			85					90					95		
Arg	Ala	Ala	Gly	Arg	Ala	Gln	Glu	Gly	Val	Pro	Gly	Gly	Cys	Leu	Pro
			100					105					110		
Gly	Thr	Thr	Ala	Pro	Phe	Leu	Phe	Pro	Asn	Val	Leu	Met	His	Ser	Leu
		115					120					125			
Trp	Ile	Phe	Ser	Ile	Phe	Leu	Leu	Val	Glu	Lys	His	Leu	Lys	Glu	Lys
	130					135					140				
Gly	Arg	Thr	Arg	Ala	Val	Gln	Leu	Gln	Lys	Thr	Pro	Ser	Thr	Ser	Arg
145					150				155						160
Cys	Thr	Ser	Tyr	Pro	Arg	Arg	Arg	Thr	Ser	Ala	Ser	Ser			
				165				170							

<210> 19
 <211> 60
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<220>
 <221> VARIANT
 <222> 1, 19, 23, 32, 33, 36, 43
 <223> Xaa = Any Amino Acid

Xaa	Thr	Trp	Arg	Thr	Ala	Ser	Val	Arg	Arg	Thr	Ser	Gln	Ser	Ala	Ser
1				5				10						15	
Ser	Gly	Xaa	Arg	Gln	Ile	Xaa	Asn	Thr	Asn	Lys	Lys	Ala	Asp	Phe	Xaa
			20				25					30			
Xaa	Gly	Asp	Xaa	Ser	Val	Arg	Gln	Glu	Trp	Xaa	Ser	Arg	Pro	Ala	Thr
		35				40					45				
Pro	Ala	Trp	Thr	Ile	Thr	Arg	Ala	Gly	Pro	Gln	Gly				
	50					55					60				

<210> 20
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicted amino acid sequence of human delta

<400> 20
 Arg His Arg Arg Gln Asp Val Ala Gln Gln Ala
 1 5 10

<210> 21
 <211> 61
 <212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<400> 21

His	Gln	Val	Pro	Val	Pro	Arg	Leu	Leu	Arg	Glu	Glu	Lys	Gly	Thr	Pro	
1				5					10					15		
Thr	Thr	Leu	Arg	Gly	Cys	Val	Leu	Arg	Ala	Gly	Leu	Arg	Arg	Gly	Tyr	
			20					25					30			
Leu	Gly	Gly	Val	Phe	Leu	Glu	Pro	Leu	Leu	Arg	Phe	Ser	Ser	Gln	Met	
		35					40					45				
Phe	Ser	Cys	Ile	His	Cys	Gly	Phe	Ser	Leu	Phe	Ser	Phe				
	50					55					60					

<210> 22

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<400> 22

Lys	Lys	Lys	Ala	Gly	Leu	Gly	Leu	Phe	Asn	Phe	Lys	Lys	Arg	His	Gln	
1				5					10					15		
Val	Pro	Val	Gly	Val	Arg	His	Ile	Arg	Gly	Glu	Gly	Arg	Val	Arg	His	
			20					25					30			
Arg																

<210> 23

<211> 175

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted amino acid sequence of human delta

<220>

<221> VARIANT

<222> 25, 34, 35, 38, 97

<223> Xaa = Any Amino Acid

<400> 23

Thr	Met	Asn	Asn	Leu	Ala	Asn	Cys	Gln	Arg	Glu	Lys	Asp	Ile	Ser	Val	
1				5					10					15		
Ser	Ile	Ile	Gly	Ala	Thr	Gly	Ile	Xaa	Asn	Thr	Asn	Lys	Lys	Ala	Asp	
			20					25					30			
Phe	Xaa	Xaa	Gly	Asp	Xaa	Ser	Ser	Asp	Lys	Asn	Gly	Phe	Gln	Lys	Ala	
		35					40					45				
Arg	Tyr	Pro	Ser	Val	Asp	Tyr	Asn	Leu	Val	Gln	Asp	Leu	Lys	Gly	Asp	
	50					55					60					
Asp	Thr	Ala	Val	Arg	Thr	Ser	His	Ser	Lys	Arg	Asp	Thr	Lys	Cys	Gln	
65					70					75				80		
Ser	Pro	Gly	Ser	Ser	Gly	Arg	Arg	Arg	Gly	Pro	Arg	Pro	His	Ser	Gly	
			85						90					95		
Xaa	Ala	Cys	Cys	Gly	Pro	Gly	Ser	Gly	Gly	Gly	Thr	Trp	Gly	Val	Ser	
			100					105					110			

Ser	Trp	Asn	His	Cys	Ser	Val	Ser	Leu	Pro	Lys	Cys	Ser	His	Ala	Phe
		115					120				125				
Ile	Val	Asp	Phe	Leu	Tyr	Phe	Pro	Phe	Ser	Gly	Glu	Ala	Ser	Glu	Arg
	130					135					140				
Lys	Arg	Pro	Asp	Ser	Gly	Cys	Ser	Thr	Ser	Lys	Asp	Thr	Lys	Tyr	Gln
145					150					155					160
Ser	Val	Tyr	Val	Ile	Ser	Glu	Glu	Lys	Asp	Glu	Cys	Val	Ile	Ala	
			165					170						175	

<210> 24
 <211> 2899
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Consenses sequence of mouse delta and human delta

<220>
 <221> misc_feature
 <222> 854, 973, 984, 1582, 1787, 1819, 1864, 1916, 1951, 2033,
 2152, 2156, 2171, 2183, 2194, 2212, 2220, 2226, 2230, 2244,
 2245, 2264, 2265, 2266, 2287
 <223> n = A,T,C or G

<400> 24

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cacctacggc	agtgtgtca	cgccagtgt	gggtctcgac	tccttcagcc	tgcctsatkg	300
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cctggccrrg	yaccttctct	ctgatytatt	aagcyctcca	yacagaytct	ccygatgacc	420
tcgcaacaga	aaaccacaga	agactcatca	gccgcctgrc	cacycagagg	cacctsackg	480
tgggmrgarg	rtggtcycag	gacctkcaca	gyagcggccg	cacrgacctc	mrgtactcyt	540
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gggaygaygc	cttyggccac	ttcacctgyg	gggasmgwg	ggagaarrtg	tgraccctg	660
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asaagaryrg	cttyaaggyc	cgmtacccmr	nkgtggacta	taacctcgk	crrgacctca	1980
agggwgayga	mrcrcsgtc	agggayrcrc	acagcaarcg	tgacaccaag	tgncagycmc	2040
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gtaarntggn agcgatgtgg caannttccc atttctcksa aaknnnattc cmmggatata 2280
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<210> 25

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> sequence encoded by SEQ ID NO. 93 (degenerated oligo)

<400> 25

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1 5

<210> 26

<211> 1981

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 559, 678, 689, 1287, 1492, 1524, 1569, 1621, 1656, 1738, 1857, 1861, 1876, 1888, 1899, 1917, 1925, 1931, 1935, 1942, 1943, 1952, 1953, 1954, 1968

<223> n = A,T,C or G

<400> 26

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gacggtgggc gaggagtggc cccaggacct gcacagcagc ggccgcacgg acctcaagta 240
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ngtacaagtc ggtgtncgtc atttccgnag gaggaaggnt gactgcgtca taggaantt 1920
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<210> 27
 <211> 31
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 27
 His Trp Val Arg Ala Pro Leu Glu Val Asp Gly Ile Asp Lys Leu Asp
 1 5 10 15
 Ile Glu Phe Arg Leu His Leu Ala Gly His Leu Leu Ser Asp Tyr
 20 25 30

<210> 28
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 28
 Ser Ser Pro His Arg Phe Ser
 1 5

<210> 29
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 29
 Pro Arg Asn Arg Lys Pro Arg Lys Thr His Gln Pro Pro Gly His Pro
 1 5 10 15
 Glu Ala Pro Asp Gly Gly Arg Gly Val Val Pro Gly Pro Ala Gln Gln
 20 25 30

Arg Pro His Gly Pro Gln Val Leu Leu Pro Leu Arg Val
 35 40 45

<210> 30
 <211> 49
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 30
 Arg Thr Leu Leu Arg Arg Gly Leu Leu Arg Phe Pro Ser Pro Gly Arg
 1 5 10 15
 Cys Leu Arg Pro Leu His Leu Trp Gly Ala Trp Gly Glu Ser Val Gln
 20 25 30
 Pro Trp Leu Glu Arg Ala Leu Leu His Arg Ala Asp Leu Pro Ala Trp
 35 40 45
 Met

<210> 31
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 31
 Ala Ala Trp Ile Leu
 1 5

<210> 32
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 32
 Gln Thr Arg Gly Met Gln Val Gln Ser Gly Leu Ala Gly Pro Val Leu
 1 5 10 15

<210> 33
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 25
 <223> Xaa = Any Amino Acid

<400> 33
 Arg Val Tyr Pro Leu Ser Arg Leu Ser Pro Trp His Leu Pro Ala Ala
 1 5 10 15
 Leu Ala Val Gln Leu Pro Gly Arg Xaa Gly Gly Pro Phe Leu Gln Pro
 20 25 30
 Gly Pro Glu Leu Leu His Thr Pro
 35 40

<210> 34
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 27
 <223> Xaa = Any Amino Acid

<400> 34
 Ala Leu Gln Glu Trp Ser His Leu Gln Gln Thr Arg Ala Arg Gly Ser
 1 5 10 15
 Tyr Thr Trp Ser Leu Ala Gly Leu Gly Tyr Xaa Gly Cys His Leu Arg
 20 25 30
 Ser Leu Gly Ile Gly Arg Val Val Asp Pro Ser Pro Trp
 35 40 45

<210> 35
 <211> 196
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 166, 179
 <223> Xaa = Any Amino Acid

<400> 35
 Glu Arg Arg Glu Leu Asp Gly Ser Ser Glu Asn Ser Tyr Ser Cys Thr
 1 5 10 15
 Cys Pro Pro Gly Phe Tyr Gly Lys Ile Cys Glu Leu Ser Ala Met Thr
 20 25 30
 Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Pro Asp
 35 40 45
 Gly Gly Tyr Ser Cys Arg Cys Pro Val Gly Tyr Ser Gly Phe Asn Cys
 50 55 60
 Glu Lys Lys Ile Asp Tyr Cys Ser Ser Ser Pro Cys Ser Asn Gly Ala

65					70					75					80
Lys	Cys	Val	Asp	Leu	Gly	Asp	Ala	Tyr	Leu	Cys	Arg	Gly	Gln	Ala	Gly
				85					90					95	
Phe	Ser	Gly	Arg	His	Cys	Asp	Asp	Asn	Val	Asp	Asp	Cys	Ala	Ser	Ser
			100					105					110		
Pro	Cys	Ala	Asn	Gly	Gly	Thr	Cys	Arg	Asp	Gly	Val	Asn	Asp	Phe	Ser
		115					120					125			
Cys	Thr	Cys	Pro	Pro	Gly	Tyr	Thr	Gly	Arg	Asn	Cys	Ser	Ala	Pro	Ala
	130					135					140				
Ser	Arg	Cys	Glu	His	Ala	Pro	Cys	His	Asn	Gly	Ala	Thr	Cys	His	Glu
145					150					155					160
Arg	Gly	His	Arg	Tyr	Xaa	Cys	Glu	Cys	Ala	Arg	Ser	Tyr	Gly	Gly	Pro
				165					170					175	
Asn	Cys	Xaa	Phe	Leu	Leu	Pro	Glu	Thr	Ala	Pro	Pro	Ala	Pro	Arg	Trp
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<210> 36
 <211> 65
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 51
 <223> Xaa = Any Amino Acid

<400> 36															
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Arg	Arg	Gly	His	Pro	Cys	Pro	His	Ala	Ala	Ala	Gly	Leu	Cys	Arg	Cys
			20					25					30		
Gly	Gly	Leu	Arg	Pro	Ala	Glu	Ala	Ala	Glu	Ala	Pro	Ala	Pro	Ser	Arg
		35				40						45			
Pro	Leu	Xaa	Gly	Gly	Asp	Gly	Asp	His	Glu	Gln	Pro	Gly	Gln	Leu	Pro
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Ala															
65															

<210> 37
 <211> 42
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 28, 39
 <223> Xaa = Any Amino Acid

<400> 37

Glu	Gly	His	Leu	Ser	Gln	His	His	Arg	Gly	His	Ala	Asp	Gln	Glu	His
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Gln	Gln	Glu	Gly	Gly	Leu	Pro	Arg	Gly	Pro	Gln	Xaa	Arg	Gln	Glu	Trp
			20					25					30		
Leu	Gln	Gly	Pro	Leu	Pro	Xaa	Gly	Gly	Leu						
		35					40								

<210> 38
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 38
 Pro Arg Ala Gly Pro Gln Gly
 1 5

<210> 39
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 39
 Arg His Arg Arg Gln Gly Arg Ala Gln Gln Ala
 1 5 10

<210> 40
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 4, 43, 45, 50, 54
 <223> Xaa = Any Amino Acid

<400> 40
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 1 5 10 15
 Arg Pro Thr Leu Arg Gly Trp Arg Lys His Leu Glu Arg Lys Arg Pro
 20 25 30
 Asp Phe Gly Leu Val Gln Leu Ser Lys Asp Xaa Gln Xaa Thr Ser Arg
 35 40 45
 Cys Xaa Ser Phe Pro Xaa Glu Glu Gly
 50 55

<210> 41
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 5, 8
 <223> Xaa = Any Amino Acid

<400> 41
 Leu Arg His Arg Xaa Leu Arg Xaa
 1 5

<210> 42
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 1, 4, 5
 <223> Xaa = Any Amino Acid

<400> 42
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 1 5 10

<210> 43
 <211> 276
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT

<222> 226, 230
 <223> Xaa = Any Amino Acid

<400> 43
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 1 5 10 15
 Ser Asn Ser Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu
 20 25 30
 Ala Leu His Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu
 35 40 45

Arg	Leu	Ile	Ser	Arg	Leu	Ala	Thr	Gln	Arg	His	Leu	Thr	Val	Gly	Glu
50						55					60				
Glu	Trp	Ser	Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	Thr	Asp	Leu	Lys	Tyr
65					70				75						80
Ser	Tyr	Arg	Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly	Glu	Gly	Cys	Ser
				85					90					95	
Val	Phe	Cys	Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly	His	Phe	Thr	Cys	Gly
			100					105						110	
Glu	Arg	Gly	Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys	Gly	Pro	Tyr	Cys
		115					120					125			
Thr	Glu	Pro	Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys
		130					135					140			
Asp	Lys	Pro	Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr
145					150					155					160
Cys	Asp	Glu	Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln
				165					170					175	
Gln	Pro	Trp	Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys
			180					185						190	
Asn	Gln	Asp	Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly
		195					200					205			
Ala	Thr	Cys	Asn	Lys	His	Gly	Pro	Gly	Gly	Ala	Thr	Leu	Gly	Leu	Trp
		210				215						220			
Pro	Xaa	Trp	Gly	Thr	Xaa	Gly	Ala	Thr	Cys	Glu	Ala	Trp	Gly	Leu	Asp
225					230					235					240
Glu	Leu	Leu	Thr	Pro	Ala	Leu	Gly	Lys	Asn	Gly	Gly	Ser	Leu	Thr	Asp
				245					250					255	
Leu	Arg	Arg	Thr	Ala	Thr	Pro	Val	Pro	Ala	His	Pro	Ala	Ser	Thr	Ala
			260					265						270	
Lys	Ser	Val	Asn												
		275													

<210> 44
 <211> 93
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

Pro	Val	Arg	Thr	Ala	Leu	Ala	Leu	Thr	Gly	Val	Gly	Ala	Gln	Thr	Ala
1				5					10					15	
Pro	Met	Glu	Gly	Thr	Ala	Ala	Ala	Ala	Pro	Trp	Ala	Thr	Pro	Ala	Ser
			20					25					30		
Thr	Val	Arg	Arg	Lys	Leu	Thr	Thr	Ala	Ala	Leu	His	Pro	Val	Leu	Met
			35				40					45			
Val	Pro	Ser	Val	Trp	Thr	Ser	Val	Met	Pro	Thr	Cys	Ala	Ala	Ala	Arg
		50				55					60				
Pro	Ala	Ser	Arg	Gly	Gly	Thr	Val	Thr	Thr	Thr	Trp	Thr	Thr	Ala	Pro
65				70					75						80
Pro	Pro	Arg	Ala	Pro	Thr	Gly	Ala	Pro	Ala	Gly	Met	Ala			
				85					90						

<210> 45
 <211> 74
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 55
 <223> Xaa = Any Amino Acid

<400> 45
 Thr Thr Ser Pro Ala Pro Ala Arg Leu Ala Thr Arg Ala Gly Thr Ala
 1 5 10 15
 Val Pro Pro Pro Ala Gly Ala Ser Thr His Pro Ala Thr Met Gly Pro
 20 25 30
 Pro Ala Thr Arg Gly Ala Thr Ala Ile Cys Ala Ser Val Pro Glu Ala
 35 40 45
 Thr Gly Val Pro Thr Ala Xaa Ser Cys Pro Lys Leu Pro Pro Arg Pro
 50 55 60
 His Gly Gly Gly Asn Ser Pro Lys Lys Thr
 65 70

<210> 46
 <211> 187
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 47, 58, 73, 101, 128, 167, 168, 181, 187
 <223> Xaa = Any Amino Acid

<400> 46
 Lys Gly Arg Gly Gly Pro Ile Pro Leu Val Asp Val Cys Ala Gly Val
 1 5 10 15
 Ile Leu Val Leu Met Leu Leu Leu Gly Cys Ala Ala Val Val Cys
 20 25 30
 Val Arg Leu Arg Leu Gln Lys His Arg Pro Pro Ala Asp Pro Xaa Arg
 35 40 45
 Gly Glu Thr Glu Thr Met Asn Asn Leu Xaa Asn Cys Gln Arg Glu Lys
 50 55 60
 Asp Ile Ser Val Ser Ile Ile Gly Xaa Thr Gln Ile Lys Asn Thr Asn
 65 70 75 80
 Lys Lys Ala Asp Phe His Gly Asp His Ala Asp Lys Asn Gly Phe Lys
 85 90 95
 Ala Arg Tyr Pro Xaa Val Asp Tyr Asn Leu Val Gln Asp Leu Lys Gly
 100 105 110
 Asp Asp Thr Ala Val Arg Asp Ala His Ser Lys Arg Asp Thr Lys Xaa
 115 120 125
 Gln Pro Gln Gly Ser Ser Gly Glu Glu Gly Thr Pro Asp Pro His Ser
 130 135 140
 Gly Gly Gly Gly Ser Ile Leu Lys Glu Lys Gly Arg Thr Ser Gly Leu
 145 150 155 160
 Phe Asn Phe Gln Lys Thr Xaa Xaa Val Gln Val Gly Val Arg His Phe
 165 170 175
 Arg Arg Arg Lys Xaa Asp Cys Val Ile Gly Xaa

<210> 47
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 2, 4, 5, 7, 8, 11, 16
 <223> Xaa = Any Amino Acid

<400> 47
 Gly Xaa Lys Xaa Xaa Val Xaa Xaa Gly Lys Xaa Ser Pro Asp Ser Xaa
 1 5 10 15
 Phe Lys Val Phe
 20

<210> 48
 <211> 12
 <212> PRT

<213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 48
 Leu Gly Thr Gly Pro Pro Arg Gly Arg Arg Tyr Arg
 1 5 10

<210> 49
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 49
 Tyr Arg Ile Pro Ala Ser Pro Gly Arg Ala Pro Ser Leu
 1 5 10

<210> 50
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three

possible ORF of human Delta contigs

<400> 50

Leu	Leu	Lys	Leu	Ser	Thr	Gln	Ile	Leu	Leu	Met	Thr	Ser	Gln	Gln	Lys
1				5					10					15	
Thr	Gln	Lys	Asp	Ser	Ser	Ala	Ala	Trp	Pro	Pro	Arg	Gly	Thr		
			20					25					30		

<210> 51

<211> 135

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>

<221> VARIANT

<222> 126

<223> Xaa = Any Amino Acid

<400> 51

Arg	Trp	Ala	Arg	Ser	Gly	Pro	Arg	Thr	Cys	Thr	Ala	Ala	Ala	Ala	Arg
1				5					10					15	
Thr	Ser	Ser	Thr	Pro	Thr	Ala	Ser	Cys	Val	Thr	Asn	Thr	Thr	Thr	Glu
			20					25					30		
Arg	Ala	Ala	Pro	Phe	Ser	Ala	Val	Pro	Gly	Thr	Met	Pro	Ser	Ala	Thr
		35					40				45				
Ser	Pro	Val	Cys	Ser	Val	Gly	Arg	Lys	Cys	Ala	Thr	Leu	Ala	Gly	Lys
	50					55					60				
Gly	Pro	Thr	Ala	Gln	Ser	Arg	Ser	Ala	Cys	Leu	Asp	Val	Met	Ser	Ser
65				70						75				80	
Met	Asp	Phe	Phe	Val	Thr	Asn	Gln	Asn	Ala	Ser	Ala	Glu	Trp	Ala	Gly
			85					90						95	
Arg	Ala	Gly	Thr	Val	Thr	Ser	Val	Ser	Ala	Ile	Gln	Ala	Val	Ser	Met
			100					105						110	
Ala	Pro	Ala	Ser	Ser	Pro	Gly	Ser	Ala	Thr	Ala	Arg	Lys	Xaa	Gly	Gly
		115					120					125			
Ala	Phe	Ser	Ala	Thr	Arg	Thr									
	130					135									

<210> 52

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Deduced amino acid sequence using the three
possible ORF of human Delta contigs

<220>

<221> VARIANT

<222> 30, 33

<223> Xaa = Any Amino Acid

<400> 52

Thr Thr Ala His Thr Ile Ser Pro Ala Arg Met Glu Pro Pro Ala Thr

1		5		10		15									
Asn	Thr	Gly	Gln	Gly	Glu	Leu	His	Leu	Val	Phe	Gly	Arg	Xaa	Gly	Val
		20						25					30		
Xaa	Arg	Val	Pro	Pro	Ala	Lys	Leu	Gly	Asp	Trp	Thr	Ser	Cys		
		35					40					45			

<210> 53
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 53
 Pro Gln Pro Leu Val Arg Thr Glu Gln Glu
 1 5 10

<210> 54
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 54
 Arg Ile Phe Gly Glu Gln Leu Leu Leu Tyr Leu Pro Thr Arg Leu Leu
 1 5 10 15
 Arg Gln Asn Leu
 20

<210> 55
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 55
 Ile Glu Cys His Asp Leu Cys Gly Arg Pro Leu Leu
 1 5 10

<210> 56
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 56

Arg Gly Ser Val Leu Arg Gln Pro Arg Trp Arg Val Gln Leu Pro Leu
 1 5 10 15
 Pro Arg Gly Leu Leu Arg Leu Gln Leu
 20 25

<210> 57
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 57
 Leu Leu Gln Leu Phe Thr Leu Phe
 1 5

<210> 58
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 58
 Trp Cys Gln Val Cys Gly Pro Arg
 1 5

<210> 59
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<400> 59
 Cys Leu Pro Val Pro Leu Pro Gly Arg Leu Leu Gly Glu Ala Leu
 1 5 10 15

<210> 60
 <211> 131
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 76
 <223> Xaa = Any Amino Acid

<400> 60
 Arg Gln Arg Gly Arg Leu Arg Leu Leu Pro Val Arg Gln Gly His Leu
 1 5 10 15
 Pro Gly Trp Arg Glu Arg Leu Leu Leu His Leu Pro Ala Trp Leu His
 20 25 30
 Gly Gln Glu Leu Gln Cys Pro Arg Gln Gln Val Arg Ala Arg Thr Leu
 35 40 45
 Pro Gln Trp Gly His Leu Pro Arg Glu Gly Pro Pro Leu Phe Val Arg
 50 55 60
 Val Cys Pro Lys Leu Arg Gly Ser Gln Leu Pro Xaa Pro Ala Pro Arg
 65 70 75 80
 Asn Cys Pro Pro Gly Pro Thr Val Val Glu Thr Pro Leu Lys Lys Pro
 85 90 95
 Lys Arg Ala Gly Gly Gly Pro Ser Pro Trp Trp Thr Cys Ala Pro Gly
 100 105 110
 Ser Ser Leu Ser Ser Cys Cys Cys Trp Ala Val Pro Leu Trp Trp Ser
 115 120 125
 Ala Ser Gly
 130

<210> 61
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 12
 <223> Xaa = Any Amino Acid

<400> 61
 Gly Cys Arg Ser Thr Gly Pro Gln Pro Thr Pro Xaa Gly Gly Arg Arg
 1 5 10 15
 Arg Pro

<210> 62
 <211> 98
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 4, 19, 36, 48, 75
 <223> Xaa = Any Amino Acid

<400> 62
 Thr Thr Trp Xaa Thr Ala Ser Val Arg Arg Thr Ser Gln Ser Ala Ser
 1 5 10 15
 Ser Gly Xaa Arg Arg Ser Arg Thr Pro Thr Arg Arg Arg Thr Ser Thr

			20					25				30			
Gly	Thr	Thr	Xaa	Pro	Thr	Arg	Met	Ala	Ser	Arg	Pro	Ala	Thr	Gln	Xaa
		35					40					45			
Trp	Thr	Ile	Thr	Ser	Cys	Arg	Thr	Ser	Arg	Val	Thr	Thr	Pro	Pro	Ser
	50					55					60				
Gly	Thr	Arg	Thr	Ala	Ser	Val	Thr	Pro	Ser	Xaa	Ser	Pro	Arg	Ala	Pro
65					70					75					80
Gln	Gly	Arg	Arg	Arg	Cys	Pro	Pro	Thr	His	Thr	Gln	Gly	Val	Glu	Glu
				85					90					95	
Ala	Ser														

<210> 63
 <211> 33
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 16, 17, 22, 26, 30
 <223> Xaa = Any Amino Acid

<400>	63														
Lys	Lys	Lys	Ala	Gly	Leu	Arg	Ala	Cys	Ser	Thr	Phe	Lys	Arg	Gln	Xaa
1				5				10						15	
Xaa	Tyr	Lys	Ser	Val	Xaa	Val	Ile	Ser	Xaa	Gly	Gly	Arg	Xaa	Thr	Ala
			20					25					30		
Ser															

<210> 64
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Deduced amino acid sequence using the three
 possible ORF of human Delta contigs

<220>
 <221> VARIANT
 <222> 2, 6, 8, 10, 13, 14, 19
 <223> Xaa = Any Amino Acid

<400>	64														
Glu	Xaa	Glu	Val	Val	Xaa	Trp	Xaa	Leu	Xaa	Leu	Glu	Xaa	Xaa	Pro	Arg
1				5				10						15	
Ile	Pro	Xaa	Ser	Lys	Phe										
				20											

<210> 65
 <211> 192
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 65

Gly	Phe	Thr	Trp	Pro	Gly	Thr	Phe	Ser	Leu	Ile	Ile	Glu	Ala	Leu	His	
1				5				10						15		
Thr	Asp	Ser	Pro	Asp	Asp	Leu	Ala	Thr	Glu	Asn	Pro	Glu	Arg	Leu	Ile	
			20					25					30			
Ser	Arg	Leu	Ala	Thr	Gln	Arg	His	Leu	Thr	Val	Gly	Glu	Glu	Trp	Ser	
		35					40					45				
Gln	Asp	Leu	His	Ser	Ser	Gly	Arg	Thr	Asp	Leu	Lys	Tyr	Ser	Tyr	Arg	
	50					55					60					
Phe	Val	Cys	Asp	Glu	His	Tyr	Tyr	Gly	Glu	Gly	Cys	Ser	Val	Phe	Cys	
65					70					75					80	
Arg	Pro	Arg	Asp	Asp	Ala	Phe	Gly	His	Phe	Thr	Cys	Gly	Glu	Arg	Gly	
				85					90					95		
Glu	Lys	Val	Cys	Asn	Pro	Gly	Trp	Lys	Gly	Pro	Tyr	Cys	Thr	Glu	Pro	
			100					105						110		
Ile	Cys	Leu	Pro	Gly	Cys	Asp	Glu	Gln	His	Gly	Phe	Cys	Asp	Lys	Pro	
		115					120						125			
Gly	Glu	Cys	Lys	Cys	Arg	Val	Gly	Trp	Gln	Gly	Arg	Tyr	Cys	Asp	Glu	
	130					135					140					
Cys	Ile	Arg	Tyr	Pro	Gly	Cys	Leu	His	Gly	Thr	Cys	Gln	Gln	Pro	Trp	
145					150					155					160	
Gln	Cys	Asn	Cys	Gln	Glu	Gly	Trp	Gly	Gly	Leu	Phe	Cys	Asn	Gln	Asp	
				165					170					175		
Leu	Asn	Tyr	Cys	Thr	His	His	Lys	Pro	Cys	Lys	Asn	Gly	Ala	Thr	Cys	
			180					185					190			

<210> 66

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 66

Thr	Asn	Thr	Gly	Gln	Gly	
1				5		

<210> 67

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 67

Lys	Asn	Gly	Gly	Ser	Leu	Thr	Asp	Leu	
1				5					

<210> 68
 <211> 157
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 68
 Glu Asn Ser Tyr Ser Cys Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile
 1 5 10 15
 Cys Glu Leu Ser Ala Met Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly
 20 25 30
 Gly Arg Cys Ser Asp Ser Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro
 35 40 45
 Val Gly Tyr Ser Gly Phe Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser
 50 55 60
 Ser Ser Pro Cys Ser Asn Gly Ala Lys Cys Val Asp Leu Gly Asp Ala
 65 70 75 80
 Tyr Leu Cys Arg Cys Gln Ala Gly Phe Ser Gly Arg His Cys Asp Asp
 85 90 95
 Asn Val Asp Asp Cys Ala Ser Ser Pro Cys Ala Asn Gly Gly Thr Cys
 100 105 110
 Arg Asp Gly Val Asn Asp Phe Ser Cys Thr Cys Pro Pro Gly Tyr Thr
 115 120 125
 Gly Arg Asn Cys Ser Ala Pro Ala Ser Arg Cys Glu His Ala Pro Cys
 130 135 140
 His Asn Gly Ala Thr Cys His Glu Arg Gly His Arg Tyr
 145 150 155

<210> 69
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 69
 Cys Glu Cys Ala Arg Ser Tyr Gly Gly Pro Asn Cys
 1 5 10

<210> 70
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Composite human delta (H-Delta-1) amino acid
 sequence

<400> 70
 Phe Leu Leu Pro Glu
 1 5

<210> 71

<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 71
Pro Pro Gly Pro
1

<210> 72
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 72
Leu Leu Leu Gly Cys Ala Ala Val Val Val Cys Val Arg Leu Arg Leu
1 5 10 15
Gln Lys His Arg Pro Pro Ala Asp Pro
20 25

<210> 73
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 73
Arg Gly Glu Thr Glu Thr Met Asn Asn Leu
1 5 10

<210> 74
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 74
Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly
1 5 10

<210> 75
<211> 16
<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 75

Thr	Gln	Ile	Lys	Asn	Thr	Asn	Lys	Lys	Ala	Asp	Phe	His	Gly	Asp	His
1				5					10					15	

<210> 76

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 76

Ala	Asp	Lys	Asn	Gly	Phe	Lys	Ala	Arg	Tyr	Pro
1				5					10	

<210> 77

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 77

Val	Asp	Tyr	Asn	Leu	Val	Gln	Asp	Leu	Lys	Gly	Asp	Asp	Thr	Ala	Val
1				5					10					15	
Arg	Asp	Ala	His	Ser	Lys	Arg	Asp	Thr	Lys						
			20					25							

<210> 78

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 78

Gln	Pro	Gln	Gly	Ser	Ser	Gly	Glu	Glu	Lys	Gly	Thr	Pro
1				5					10			

<210> 79

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 79
Pro Thr Leu Arg
1

<210> 80
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Composite human delta (H-Delta-1) amino acid
sequence

<400> 80
Arg Lys Arg Pro
1

<210> 81
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Degenerated oligo as primer

<220>
<221> VARIANT
<222> 6, 12, 18, 21
<223> n = I (Inosine)

<400> 81
ttcggnttya cntggccngg nac

23

<210> 82
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Degenerated oligo as primer

<220>
<221> VARIANT
<222> 3, 9, 12, 15
<223> n = I (Inosine)

<400> 82
tcnatgcang tnccnccrctt

20

<210> 83
<211> 8
<212> PRT
<213> Drosophila

<400> 83
Phe Gly Phe Thr Trp Pro Gly Thr

1

5

<210> 84
<211> 7
<212> PRT
<213> Drosophila

<400> 84
Asn Gly Gly Thr Cys Ile Asp
1 5

<210> 85
<211> 12
<212> PRT
<213> Drosophila

<400> 85
Ser Ile Pro Pro Gly Ser Arg Thr Ser Leu Gly Val
1 5 10

<210> 86
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer 1 for PCR

<220>
<221> VARIANT
<222> 3, 9, 15, 18, 21
<223> n = I (Inosine)

<400> 86
ggnttcacnt ggccnggnac ntt

23

<210> 87
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer 2 for PCR

<220>
<221> VARIANT
<222> 3, 6, 18
<223> n = I (Inosine)

<400> 87
gtncncnccrt tytttrcangg rtt

23

<210> 88
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> EGF-like repeats encoded by SEQ ID NO. 87

<400> 88

Asn Pro Cys Lys Asn Gly Gly Thr
1 5

<210> 89

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> degenerated oligo primer

<220>

<221> VARIANT

<222> 3, 15, 18

<223> n = I (Inosine)

<400> 89

acnatgaaya ayctngcnaa ytg

23

<210> 90

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid encoded by SEQ ID NO. 89

<400> 90

Thr Met Asn Asn Leu Ala Asn Cys
1 5

<210> 91

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> degenerated oligo primer

<220>

<221> VARIANT

<222> 6, 9, 21

<223> n = I (Inosine)

<400> 91

acrtanacng aytgrtaytt ng

23

<210> 92

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid sequence encoded by SEQ ID NO. 91

<400> 92

Thr Lys Tyr Gln Ser Val Tyr Val
1 5

<210> 93
<211> 23

<212> DNA
<213> Artificial Sequence

<220>
<223> degenerated oligo

<220>
<221> VARIANT
<222> 6
<223> n = I (Inosine)

<400> 93
gdatnacrc aytcrctcytt ytc

23

<210> 94
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid sequence endoced by SEQ ID NO. 86

<400> 94
Gly Phe Thr Trp Pro Gly Thr Phe
1 5